

CLAIMS

1. An information processing device comprising:
a recording medium interface for executing reading of data from an information recording medium; and
a data processing unit for executing recording processing of new data either generated or obtained applying information obtained from said information recording medium;
wherein said information recording medium is an information recording medium storing recorded data in increments of content management units including encrypted data encrypted by unit keys each of which are set as different encryption keys;
and wherein said data processing unit obtains a unit key corresponding to a content management unit to which said obtained information belongs or a unit key corresponding to a new content management unit, executes encryption processing of said new data applying the obtained unit key, and executes recording processing with the generated encrypted data as data configuring the content management unit.

2. The information processing device according to Claim 1, wherein said data processing unit is configured to set a content management unit corresponding to said new data, and also execute setting processing for an encryption key

serving as management information corresponding to the content management unit including said new data.

3. The information processing device according to Claim 1, wherein said data processing unit is configured to set a content management unit corresponding to said new data, and also execute setting processing for content usage control information serving as management information corresponding to the content management unit including said new data.

4. The information processing device according to Claim 1, wherein said data processing unit is configured to execute writing processing of said new data to a region stipulated by a program included in the information obtained from said information recording medium.

5. The information processing device according to Claim 1, wherein said data processing unit is configured to, in a case of storing said new data in storage means other than an information recording medium from which said obtained information has been obtained, execute processing for storing said new data correlated with identification information of the information recording medium from which said obtained information has been obtained.

6. The information processing device according to Claim 1, wherein said data processing unit is configured to execute encryption processing of an AV stream data file including new data and a navigation file including control information or a program to be applied to playing processing of said AV stream data, and to execute recording processing of new data to storage means.

7. The information processing device according to Claim 6, wherein said data processing unit is configured to apply a unit key corresponding to a content management unit as an encryption key to be applied to said encryption processing.

8. The information processing device according to Claim 6, wherein said data processing unit is configured to execute encryption processing applying, as an encryption key or encryption key generating information, information which can only be obtained by an application licensed to execute processing regarding said content management unit.

9. The information processing device according to Claim 8, wherein said information which can only be obtained by a licensed application is information including a device ID as an identifier unique to the device in which said application is installed.

10. The information processing device according to Claim 1, wherein said data processing unit is configured to generate a hash value for tampering verification with regard to at least one of an AV stream data file including new data, and a navigation file including control information or a program to be applied to playing processing of said AV stream data, and to record said hash value in storage means.

11. The information processing device according to Claim 10, wherein said data processing unit is configured to execute data tampering verification processing based on the hash value set for an AV stream data file including new data or a navigation file, at the time of using said file, and executes usage processing of said files under the condition that there is no tampering.

12. The information processing device according to Claim 1, wherein said data processing unit is configured to execute recording processing of a navigation file, including control information or a program to be applied to playing processing of AV stream data including new data, to storage means, as a file to which an electronic signature has been appended for tampering verification.

13. The information processing device according to Claim 12, wherein said data processing unit is configured to execute data tampering verification processing based on the electronic signature set for said AV stream data file including new data or said navigation file, at the time of using said file, and executes usage processing of said files under the condition that there is no tampering.

14. An information processing device comprising:

a recording medium interface for executing reading of data from an information recording medium; and

a data processing unit for executing processing of a program included in information read from said information recording medium;

wherein said data processing unit is configured to determine the type of the information recording medium from which the program has been read, and to execute the program under the condition that the program is of a type regarding which execution permission has been set beforehand.

15. An information processing device according to Claim 14, wherein said data processing unit is configured to obtain, from information read from said information recording medium, type information of information recording media regarding which program execution is permitted, and to

execute program execution permitted/not-permitted
determination in accordance with said obtained information.

16. An information processing method comprising:
 - a data reading step for reading of data from an information recording medium; and
 - a data processing step for executing recording processing of new data either generated or obtained applying information obtained from said information recording medium; wherein said information recording medium is an information recording medium storing recorded data in increments of content management units including encrypted data encrypted by unit keys each of which are set as different encryption keys;
 - and wherein said data processing step includes
 - an obtaining step for obtaining a unit key corresponding to a content management unit to which said obtained information belongs or a unit key corresponding to a new content management unit,
 - a step for executing encryption processing of said new data applying the obtained unit key, and
 - a step for executing recording processing with the generated encrypted data as data configuring the content management unit.

17. The information processing method according to Claim 16, wherein said data processing step includes a step for setting of a content management unit corresponding to said new data, and also executing of setting processing for an encryption key serving as management information corresponding to the content management unit including said new data.

18. The information processing method according to Claim 16, wherein said data processing step includes a step for setting of a content management unit corresponding to said new data, and also executing setting processing for content usage control information serving as management information corresponding to the content management unit including said new data.

19. The information processing method according to Claim 16, wherein said data processing step includes a step for executing writing processing of said new data to a region stipulated by a program included in the information obtained from said information recording medium.

20. The information processing method according to Claim 16, wherein in a case of storing said new data in storage means other than an information recording medium from which

said obtained information has been obtained, said data processing step executes processing for storing said new data correlated with identification information of the information recording medium from which said obtained information has been obtained.

21. The information processing method according to Claim 16, further comprising an encryption recording processing step of encryption processing of an AV stream data file including new data and a navigation file including control information or a program to be applied to playing processing of said AV stream data, and executing recording processing of new data to storage means.

22. The information processing method according to Claim 21, wherein said encryption recording processing step is a step for executing encryption processing, applying a unit key corresponding to a content management unit as an encryption key to be applied to said encryption processing.

23. The information processing method according to Claim 21, wherein said encryption recording processing step is a step for executing encryption processing, applying, as an encryption key or encryption key generating information, information which can only be obtained by an application

licensed to execute processing regarding said content management unit.

24. The information processing method according to Claim 23, wherein said information which can only be obtained by a licensed application is information including a device ID as an identifier unique to the device in which said application is installed.

25. The information processing method according to Claim 16, further comprising a step for generating of a hash value for tampering verification with regard to at least one of an AV stream data file including new data, and a navigation file including control information or a program to be applied to playing processing of said AV stream data, and recording of said hash value in storage means.

26. The information processing method according to Claim 25, further comprising a step for executing data tampering verification processing based on the hash value set for said AV stream data file including new data or said navigation file, at the time of using said file, and executing of usage processing of said files under the condition that there is no tampering.

27. The information processing method according to Claim 16, further comprising a step for executing recording processing of a navigation file, including control information or a program to be applied to playing processing of AV stream data including new data, to storage means, as a file to which an electronic signature has been appended for tampering verification.

28. The information processing method according to Claim 27, further comprising a step for executing data tampering verification processing based on the electronic signature set for said AV stream data file including new data or said navigation file, at the time of using said file, and executing of usage processing of said files under the condition that there is no tampering.

29. An information processing method comprising:
a data reading step for reading data from an information recording medium; and
a data processing step for executing processing of a program included in information read from said information recording medium;
wherein said data processing step includes a step for determining the type of the information recording medium from which the program has been read, and executing of the

program under the condition that the program is of a type regarding which execution permission has been set beforehand.

30. An information processing method according to Claim 29, wherein, in said data processing step, type information of information recording media regarding which program execution is permitted is obtained from information read from said information recording medium, and program execution permitted/not-permitted determination is executed in accordance with said obtained information.

31. A computer program for executing an information processing method, comprising:

a data reading step for reading data from an information recording medium; and

a data processing step for executing recording processing of new data either generated or obtained applying information obtained from said information recording medium;

wherein said information recording medium is an information recording medium storing recorded data in increments of content management units including encrypted data encrypted by unit keys each of which are set as different encryption keys;

and wherein said data processing step includes an obtaining step for obtaining a unit key

corresponding to a content management unit to which said obtained information belongs or a unit key corresponding to a new content management unit,

a step for executing encryption processing of said new data applying the obtained unit key, and

a step for executing recording processing with the generated encrypted data as data configuring the content management unit.

32. The computer program according to Claim 31, further comprising an encryption recording processing step for executing of encryption processing of an AV stream data file including new data, and a navigation file including control information or a program to be applied to playing processing of AV stream data including new data, and recording to recording means.

33. The computer program according to Claim 31, further comprising a step for recording, to storage means, tampering verification data regarding at least one of an AV stream data file including new data, and a navigation file including control information or a program to be applied to playing processing of AV stream data including new data, and recording to recording means.

34. The computer program according to Claim 31, further comprising a step for executing data tampering verification processing based on the tampering verification data set for said AV stream data file including new data or said navigation file, at the time of using said file, and executing of usage processing of said files under the condition that there is no tampering.

35. A computer program for executing information processing method, comprising:

a data reading step for reading of data from an information recording medium; and

a data processing step for executing processing of a program included in information read from said information recording medium;

wherein said data processing step includes a step for determining the type of the information recording medium from which the program has been read, and executing of the program under the condition that the program is of a type regarding which execution permission has been set beforehand.